

This specification covers the conditions of use, mechanical and electrical performances of AMP 24 + 32 way MQS right angle headers.

1. DESCRIPTION

The header is composed of 2 pockets, 24 w + 32 w.

Housing : Material : 10 % glass reinforced PBT.
 Coding : mechanical.
 PCB mounting : one board lock and locating pin .

Contacts: Dimension : 0,63 x 0,63 mm.
 Material : bronze.
 Post Plating : - selective gold plated over nickel on contact area.
 - selective tin plated over nickel on soldered area.

Sealing : Radial seal.
 Material : silicon.

2. REFERENCE DOCUMENT

P/N	INTERFACE SPECIFICATION	PCB INTERFACE
1379046-x	—	See customer drawing

3. CONDITIONS OF USE

- Temperature
 - operating of temperature : - 40 °C / + 85°C
 - test temperature : - 40°C / + 100°C
- Nominal voltage : 12V

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4. TEST

Tests are carried according to IEC 60512 series.

GENERAL EXAMINATION			
TEST	Ref.	TEST CONDITIONS	REQUIREMENTS
VISUAL EXAMINATION	1a		No defect that would impair normal operation
ELECTRICAL TESTS			
TEST	Ref.	TEST CONDITIONS	REQUIREMENTS
INSULATION RESISTANCE	3a	Voltage : 100 V Method A : test between one contact and the others	$R_i \geq 50M\Omega$
DIELECTRIC WITHSTANDING VOLTAGE	4a	Voltage : 1000 V AC during 1 min.	No breakdown or flashover
MECHANICAL TESTS			
TEST	Ref.	TEST CONDITIONS	REQUIREMENTS
FREE FALL		Fall from 1 meter height on concrete block	No damage
CONTACT RETENTION IN THE HOUSING	15a	Applied an axial force of 25 N	No damage
SOLDERING HEAT TEST		Heat the connector at 160 ° C for 3 min	No damage
HEADER MOUNTING ON THE PCB		Applied a force on header perpendicular to PCB	$F \leq 35 \text{ N}$
HEADER RETENTION ON THE PCB		Applied a force on header perpendicular to PCB	$F \geq 10 \text{ N}$
HEADER MOUNTING IN THE BOX		Applied an axial force	$F \leq 150 \text{ N}$
HEADER RETENTION ON THE BOX		Applied an axial force	$F \geq 200 \text{ N}$